

PRODUCT INFORMATION



Deuterated Primary Prostaglandin Metabolite LC-MS Mixture

Item No. 19304

Supplied as: A solution in ethanol (1 µg/ml of each compound)

Storage: -20°C

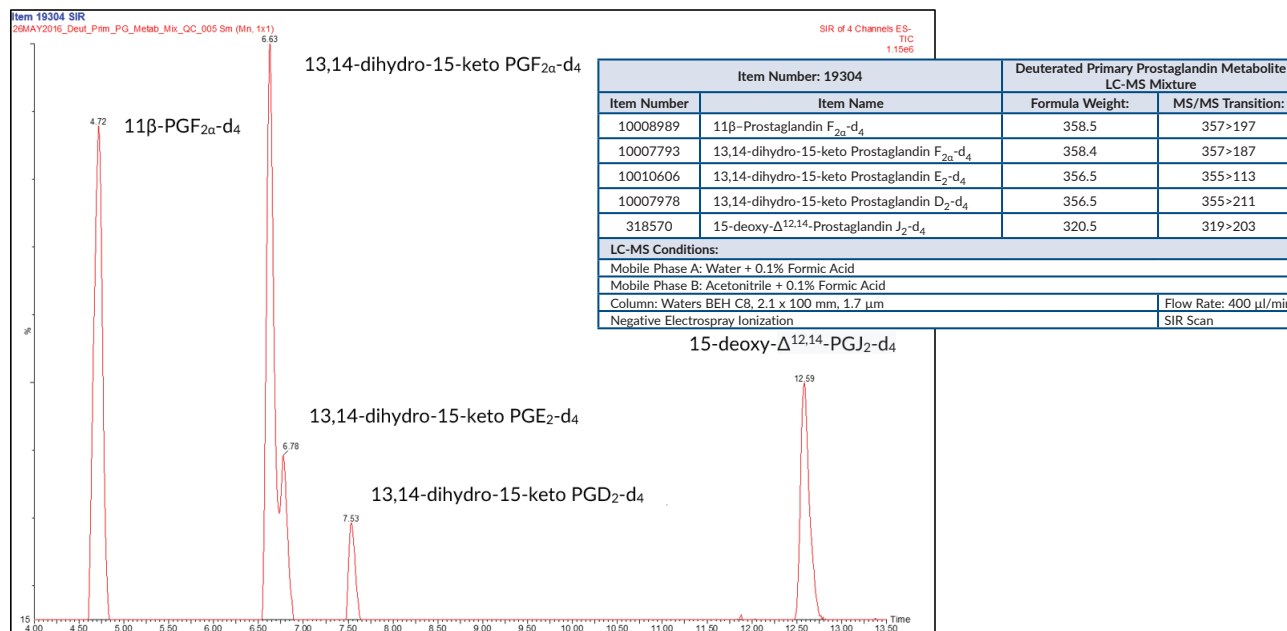
Stability: ≥5 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description and Data

The deuterated primary prostaglandin metabolite LC-MS mixture contains deuterated forms of selected eicosanoids produced by the metabolism of arachidonic acid *via* the COX pathway. The mixture is supplied in an amber ampule in which the headspace has been purged with argon to prevent lipid oxidation. This product has been designed for direct use in LC-MS applications. This mixture is ideally suited for use as an internal standard in mass spectrometry applications. It should be noted that the mixture contains isobaric analytes. After opening, we recommend that the mixture be transferred immediately to a 1 ml glass screw cap vial, to prevent solvent evaporation, and stored at -20°C. The mixture should be discarded after multiple freeze/thaw cycles.

Prostaglandin (PG) D₂ (Item No. 12010), PGE₂ (Item No. 14010), and PGF_{2α} (Item No. 16010) are metabolized rapidly by the 15-hydroxy PG dehydrogenase pathway, giving 13,14-dihydro-15-keto PGD₂ (Item No. 12610), 13,14-dihydro-15-keto PGE₂ (Item No. 14650), and 13,14-dihydro-15-keto PGF_{2α} (Item No. 16670), respectively. PGD₂ is also metabolized to 11β-PGF_{2α} (Item No. 16520) by 11-ketoreductase and non-enzymatically to 15-deoxy-Δ^{12,14}-PGJ₂ (Item No. 18570). This mixture contains deuterated forms of these five metabolites.



WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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